

# SUPERNOVA®

LT Range

**An odourless and easy-to-use cleaning compound  
for injection-moulding and extrusion equipment**

**Processing temperature 120°C - 220°C**

## ■ SUPERNOVA: Cost savings through preventive maintenance

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The problem with repeatedly changing colours and materials is largely due to the build-up of combustion residues on the cylinder wall and screw. Residues of materials and pigments can therefore remain in the processing equipment for longer periods of time thus causing the consequences thereof.

Production batches for each colour or material are constantly becoming shorter resulting in high change-over frequencies - the problem of cleaning is becoming increasingly important and expensive.

With regular preventive cleaning at least 1 x a week - carbonized residues in the form of black specks do not get the opportunity to get stuck on the metal of the screw and the cylinder wall for any length of time. This virtually eliminates the carbonization of the material; making the infamous black specks a thing of the past. In practice this means much faster (colour) change-overs, i.e. increased productivity and, as a result: better productivity of your machinery.

## ■ SUPERNOVA is used in small quantities (1½ to 2 times cylinder volume). resulting in very low costs per cleaning.

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These cost savings are due to:

- less lost time (man- and machine hours),
- reduced material loss,
- less downtime due to black specks, etc.,
- less frequent screw pulling.

Let us calculate what savings you can achieve by using the Supernova method of preventive maintenance.

## ■ SUPERNOVA: Proven, effective action

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A combination of chemical, polishing and mechanical actions make sure that all material residues are soaked loose, polished off the metal and removed from the cylinder.

In independent, comparative tests the Supernova Preventive Maintenance method has proven to be the most effective; both technically and financially. Supernova is used by many plastic producers and processors in the USA and Europe.

## ■ SUPERNOVA: Specially for thermoplastics with low processing temperatures

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The Supernova LT range is suitable for use with all thermoplastics with processing temperatures between 120°C and 220°C. The material works effectively for injection moulding, blow moulding and extrusion.

## ■ SUPERNOVA is odourless and safe to use

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Supernova is absolutely odourless, both during use as well as in its packaging. No special ventilation provisions are required.

Supernova is safe in use. All its ingredients have a FDA classification of "GRAS" (Generally Recognized As Safe).

## ■ SUPERNOVA: Easy to use

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Supernova is a granulate that can be processed just like a production material. Feeding of systems both manually and automatically - is simple and clean. Supernova is dust-free in its use, and it is also not necessary to perform complicated manipulations with liquids.

## ■ SUPERNOVA: How it works

After the cylinder has been filled with Supernova, the cleaning compound causes a series of chemical reactions. This ammonia-free chemical process removes the thermoplastic residues from the cylinder wall and screw (including those difficult-to-get-at corners). These residues are then removed fast and easily by the gently-polishing and purging components of Supernova.

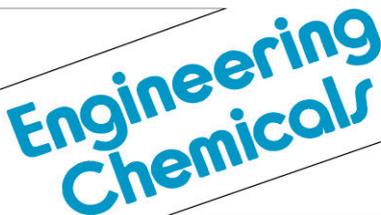
Supernova is non-abrasive and will not damage aluminum, copper, steel and steel finishes. During the process only very small quantities of carbon dioxide and water vapour are released. All the ingredients of Supernova are classified as "GRAS (Generally Recognized as Safe) by the FDA and they have no potential for harming the environment before, during or after use.

## ■ SUPERNOVA: The packaging

Odourless, easy-to-use Supernova comes in a reusable cardboard box with a plastic liner.

## ■ SUPERNOVA: Processing the residual material

After Supernova has done its work, all that is left is a residual material of a polymer filled with inert minerals. This can be disposed of as plastic waste or alternatively recycled as a mineral-filled plastic.

The logo for Engineering Chemicals B.V. features the words "Engineering" and "Chemicals" in a bold, blue, sans-serif font. The text is slanted upwards to the right and is enclosed within a stylized blue outline that resembles a double-headed arrow or a wide 'V' shape.

**ENGINEERING CHEMICALS B.V.**  
Van Andelstraat 7, 4651 TA Steenbergen  
Postbus 59, 4651 AB Steenbergen, Holland  
Tel: +31(0)167 566984 Fax: +31(0)167 561118  
Email: [e-chem@e-chem.nl](mailto:e-chem@e-chem.nl) Website: [www.e-chem.nl](http://www.e-chem.nl)

SUPERNOVA: in ready-to-use form	
<b>SUPERNOVA LTF</b>	for:
Application for low-viscosity and flexible plastics with a processing temperature of 120°C to 220°C.	<ul style="list-style-type: none"><li>• flexible</li><li>• TPE</li><li>• EVOH</li><li>• EVA</li><li>• LDPE (mfi &gt; 6)</li></ul>
<b>SUPERNOVA LTH</b>	for:
Use for harder; non flexible plastics with a processing temperature of 120°C to 220°C.	<ul style="list-style-type: none"><li>• rigid PVC</li><li>• LDPE (mfi &lt; 6)</li></ul>

SUPERNOVA: the concentrate	
<b>SUPER NOVA LT</b>	for:
•Supernova LT is a concentrated cleaning compound to be mixed in with a carrier polymer by the user.	All thermoplastics with a processing temperature between 120°C to 220°C.

## Do the Supernova test !

### ■ Step 1

Get in touch with your Supernova distributor and ask for a free sample of Supernova LT, LTF or LTH. Then do a test run on one of your extruders or injection-moulding machines. If required we can provide technical support during this test.

This first step will give you a good idea of the results and advantages which this cleaning compound can mean for you in the future

### ■ Step 2

After the above test stage, you select an extruder or injection-moulding machine which you can clean regularly (at least 1 x a week) with Supernova over a 4-6 week period. Your distributor can make material available for this purpose; at special conditions. The considerable advantages resulting from the use of Supernova will soon be evident during this test stage:

- short change-over times
- fewer rejects because of black specks, and
- reduced loss of material, resulting in improved productivity from your machinery.